### C MILOSLAVOV, V.K.

Mechanization and automatization of operations in the motionpicture printing industry. Tekh.kino i telev. 4 no.9:11-13 S 160. (MIRA 13:9)

1. Leningradskiy filial Giprokinopoligrafa.
(Motion-picture industry)

LITTEROV, S.M., insh.; MILOSLAVOV, Yu.K., inzh.

Lighting et Wescow's subway stations. Svetotekhnika 4 no.6:7-14

Je \*58.

1.Gosudarstvennyy proyektno-izyskatel\*nyy institut.

(Moscow-Subways) (Lighting)

Lighting of the new Moscow subway stations. Swetotekhnika 4 no.9:
8-10 S '58. (MIRA 11:8)

1. Gosudarstvennyy proyektno-izyskatel'nyy institut (metro).
(Moscow-Subways) (Fluorescent lighting)

VOLOVIK, A.A., starshiy nauchnyy sotrudnik; NIKITIN, Yu., mladshiy nauchnyy sotrudnik; MILOSLAVOVA, T., mladshiy nauchnyy sotrudnik; SIVENKOVA, A., mladshiy nauchnyy sotrudnik

Potato wart and nitrafen preparation. Zashch. rast. ot vred. i bol. 9 no.8:42 '64. (MIRA 17:12)

1. Nauchno-issledovatel'skiy institut kartofel'nogo khozyaystva.

# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134320

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BILICH, I.L.; MILOSLAVSKAYA, A.M. (Kazan')

"Concise manual on emergency diagnosis and treatment of internal diseases" by M.IA. Cheviakovskii. Reviewed by I.L.

Bilich, A.M. Miloslavskaia. Kaz.med.zhur. 40 no.5:122-124

S-0 '59. (MEDICINE, INTERNAL)

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MARAKOV, V.T.; MILOSLAVSKAYA, G.M.

Dynamics of organic matter in turf-Podzolic soils plowed by different methods. Nauch.dokl.vys.shkoly: biol.nauki no.4:211-214 '60.

(MTRA 13:11)

1. Rekomendovana kafedroy zemledeliya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(PCDZOL)

(HUMUS)

(PLOMING)
```

Dynamics of organic matter in turf-Podzolic soils during the period marked by the aftereffect of different plowing methods.

Nauch. dokl. vys. shkoly; biol. nauki no. 1:207-212 '61.

(MIRA 14:2)

1. Rekomendovana kafedroy semledeliya Moskovskogo gosudarstvennogo univertiteta im. M.V. Lomonosova.

(HUMUS) (PODZOL) (PLOWING)

MILOSIAVSKAYA, L. I.: Manter Med Set (čiss) -- "The effect of barbitumbes on the activity of asparaginese and clutaminase of the bruin". Ryazan', 1958.

11 pp (Ryazan' Med Inst im Acad I. P. Pavley), 200 copies (KL, No 5, 1959, 157)

### MILOSLAVSKAYA, L.I.,

Effect of barbiturates on asparaginase and glutaminase activity of the brain. [with summary in English]. Biokhimia 23 no.3:347-350 (MIRA 11:8)

1. Kafedra biokhimii Ryazanskogo meditsinskogo instituta im. I.P. Pavlova.

(HRAIN, metabolism.

asparaginase & glutaminase, eff. of barbiturates in rats
(Rus))

(AMIDASES, asparaginase & glutaminase in brain, eff. of barbiturates in rats (Rus))

(BARBITURATES, effects, on brain asparaginase & glutaminase in rats (Rus))

YAKIMCHUK, P.P., kand.med.nauk; MILOSLAVSKIY, Ya.M., kand.med.nauk; MILOSLAVSKAYA, L.I., kand.med.nauk

Effect of nitrogen dioxide on the adrenal cortex in white rats in chronic intoxication. Gig.i san. 26 no.12:79-80 D '61. (MIRA 15:9)

1. Iz kafedry gigiyeny, kafedry fakul'tetskoy terapii Ryazanskogo meditsinskogo instituta.

(ADRENAL CORTEX) (NITROGEN OXIDES--PHYSIOLOGICAL EFFECT)

# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134320

- 1. MILOSLAVSKAYA, N. M.
- 2. USSR (600)
- 4. Murmansk Mocoma Baltica
- 7. Changes in weight of Macoma baltica in different conditions of habitation. Dokl. AN SSSR 89, No. 6, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ILOSLAVERAYA, N.M.

USSR/Biology - Ecology

Card 1/1

Pub. 22 - 38/45

Authors

: Miloslavskaya, N. M.

Title

Distribution of bivalvia mollusks in eastern Murman in connection with the 

temperature fluctuations of the habitation medium

Periodical:

Dok. AN SSSR 99/4, 633-635, Dec 1, 1954

Abstract

The effect of seasonal temperature fluctuations of the water on the habitation and distribution of sea-bottom fauna of bivalvia mollusks of different

zoogeographical origin was investigated. Six references: 3-USSR; 1-

Norwegian; 1-Danish and 1-German (1878-1951). Table; graph.

Institution:

Academy of Sciences USSR, The S. M. Kirov Kol'sk Branch, Biological Station,

Murmansk

Presented by: Academician E. N. Pavlovskiy, September 9, 1954

MILOSLAUSKAMA, N.M.

USSR/ Biology - Merine zoology

Card 1/1

Pub. 22 - 45/49

Authors

Miloslavskaya, N. M.

Title

On the ecology of Platoma Baltica (L:)

Periodical

Dok. AN SSSR 101/3. 565-567. Mar 21. 1955

Abstract

Biological data are presented on the nature of the mollusk Macoma Baltica living in the northern seas of Europe and in the far eastern seas. Three references: 2 USSR and 1 German (1926-1953). Table; graph.

Institution : Acad. of Sc., USSR, The S. M. Kirov Kolsk Branch, The Murmansk

Biological Station

Presented by : Academician E. N. Pavlovskiy, December 25, 1954

CHERNOVSKAYA, Ye.N.; MILOSLAVSKAYA, H.M., kandidat biologicheskikh nauk. otvetstvennyy redaktor; GOLOVNIN, M.I., redaktor izdatel stwa; TVERITIHOVA, K.S., tekhnicheskiy redaktor

[Hydrological and hydrochemical characteristics of the littoral sone of the eastern Murman Coast and the White Sea] Gidrologicheskie i gidrokhimicheskie usloviia na litorali Vostochnogo Murmana i Belogo moria. Moskva, Isd-vo Akademii nauk SSSR, 1956. 113 p.
(White Sea] (Murman Coast) (MLRA 9:11)

Temperature as a factor influencing the distribution of bivalvular Temperature as a factor influencing the distribution of bivalvular mollusks of Mastern Murman. Trudy Murm. biol. sta. 4:140-150 '58. (MIRA 11:5)

1. Murmanskaya biologicheskaya stantsiya Kol\*skogo filiala AM SSSR. (Murman Coast—Lamellibranchiata) (Ocean temperature)

### MILOSLAVSKAYA. N.M.

Some considerations on the benthos of Mastern Murman and its role in the life of the codfish Gedus aeglefinus L. Trudy Murm. biol. (MIRA 11:5) sta. 4:151-156 158.

1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala AN SSSR.
(Murman Goast—Codfish) (Fishes—Food)

# MILOSLAVSKAYA, N.M. New warm-water mollusks in the fauna of Eastern Murman [with summary in English]. Zool. zhur. 37 no. 6:939-942 Je '58. (MIRA 11:7) 1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala AN SSSR. (Murman Goast--Molluska)

# MILOSLAVSKAYA, N.M.

Applying the concepts of interspecific relationships to the study of deep-sea benthic fauna. Trudy M'BI no.3:131-146 '61. (MIRA 15:3)

1. Laboratoriya gidrobiologii Murmanskogo morskogo biologicheskogo instituta.

(Marine fauna)

MILOSLAVSKAYA, N.M.

Interspecific relations on the bottom of the sea. Trudy MABI no.5:63-124 '64. (MIRA 17:4)

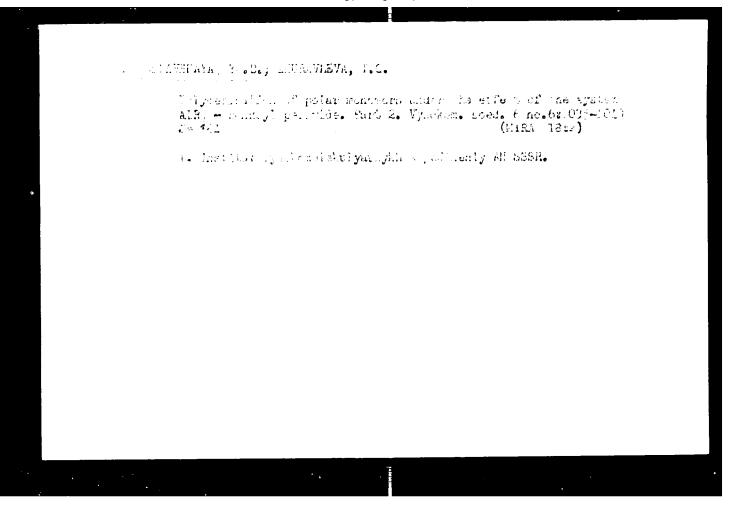
1. Laboratoriya gidrobiologii Murmanskogo morskogo biologicheskogo instituta.

MILOSLAVSKAYA, Ye.

Economic efficiency of high-speed, dry-cargo ships. Mor. flot 23 no.7:7-8 Jl 163. (MIRA 16:8)

l. Starshiy inzh. Dal'nevostochnogo filiala TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota.

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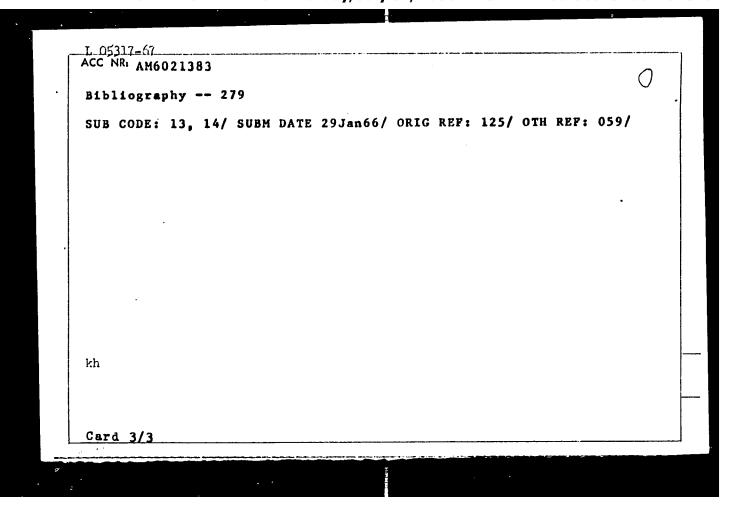
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Mikhail Vasil'yevich	On a second deep que per s'alternation - a	
Flexible shipboard cont Izd-vo "Sudostroyens printed.	tainers (Sudovyye myagkiye ye iye," 1966. 287 p. illus., bib	mkosti) Leningrad, lio., 2000 copies
shipboard container		
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Marchenko.		
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### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134320



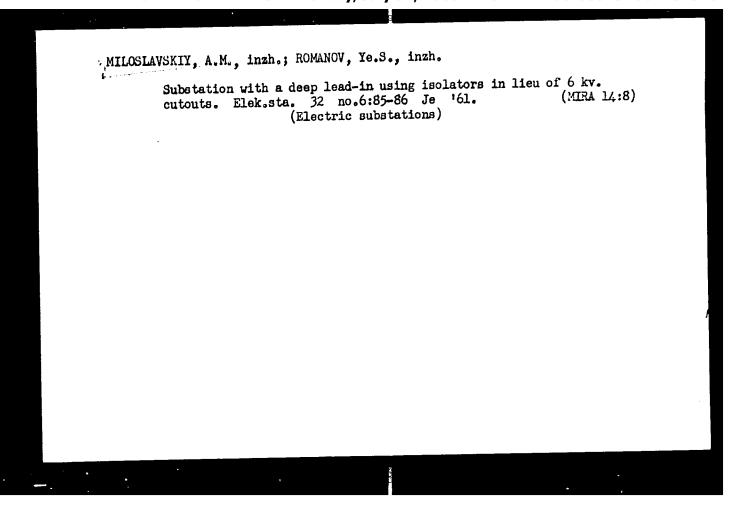
MILOSLAVSKIY, A. I., inzhener; TRAKHTENHERG, I.M., inzhener

Experience in working soils in winter. Mekh.stroi.12 no.11:23(MIRA 9:1)

(Frozen ground)

Using the S-222 diesel-powered hammer mounted on the D-157 bulldozer in ripping frozen ground. Mekh. stroi. 16 no.1:29-30 Ja '59.

(Frozen ground) (Hammers)



VASSERMAN, I.M.; YEVDOKIMOVA, M.I.; MARAMZIN, A.I.; MILOSLAVSKIY, A.S.; TOLSTOGUZOV, A.D.; FOMINA, Ye.A.

Continuous method of precipitating basic nickel carbonate with complex automation of the process. TSvet. met. 37 no.128 25-31 D '64 (MIRA 18:2)

MILONIAVSKIY, I.L., inshener.

Ways of economising metals in forging shops (from experience of the forging shop of the Moscow Stalin Automobile Flant). (In: Ryshkov,D.A., ed. Ekonomia metallov v kusnechno-shtampovochnom proisvodatve. Moskva, 1953, p.109-131)

(Forging) (Funching machinery)

HEYMAN, Pavel Pavlevich; MIIOSIAVSKIY, I.L., inshemer, retsensent; KASENKOV, M.A., kandidat tekhnicheskikh nank, redakter; SHMELIKIKA, S.I., tekhnicheskiy redakter; UVAROVA, A.F., tekhnicheskiy redaktor.

[Heating furnaces in ferge sheps] Magreval'shchik pechei kusmechneshtampevechnykh tsekhtev. Moskva, Ges. nauchne-tekhn. isd-ve mashinestreit. lit-ry, 1956. 122 p. (MIRA 9:6) (Furnaces, Heat treating)

MASSEN, V.A.; MILOSLAYSKIY, I.L.; PAVLOV, S.P.; POGODILOV, M.N.; SHEVELEV, A.Ye.; KUNITSA, S.S.; YAKOVLEV, V.G.; CHESNOKOV, V.K.; KRYLOV, B.F.; SHIKHANOVICH, B.A.; YAITSKOV, S.A.

Proposals awarded prizes at the 16th All-Union Contest for Electric Power Economies. Prom.energ. 17 no.10:12-14 0 '62. (MIRA 15:9) (Technological innovations—Competitions)

MILOSLAVSKIY, I. M.

"Clinical Significance of Bronchograpy in Nonspecific Suppurations of the Lungs."

Cand Med Sci, Dnepropetrovsk State Medical Inst, Khar'kov, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

MILOSLAVSKIY, I.M., kand.med.nauk

Importance of bronchography in making a differential diagnosis of various nonspecific pulmonary suppurations. Vrach.delo no.8:863-865 (MIRA 11:8)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.Z. TSeytlin) Khar'kovskogo meditsinskogo instituta i Oblastnaya klinicheskaya bol'nitsa.

(HRONCHI--RADIOGRAPHY) (LUMGS--DISEASES)

### MILOSLAVSKIY, I.M., kand.med.nauk

Bronchography as a method for controlling the course and efficacy of treatment of nonspecific lung suppurations. Sov.med. 22 no.11:121-123 N'58 (MIRA 11:11)

(BUNG DISEASES, ther.
suppurative dis., bronchography in determ. of efficacy
of ther. (Rus))

MILOSLAVSKIY, I.M., kand.med.nauk

Remote result of one-stage excision of the bladder in cancer.

Urologiia 24 no.3:61-62 My-Je '59. (MIRA 12:12)

1. Iz khirurgicheskogo otdeleniya (zav. I.M. Miloslavskiy) Khar'-kovskogo oblastnogo onkologicheskogo dispansera.

(BLADDER, neoplasme,
surg., result of 1-stage excis. (Rus))

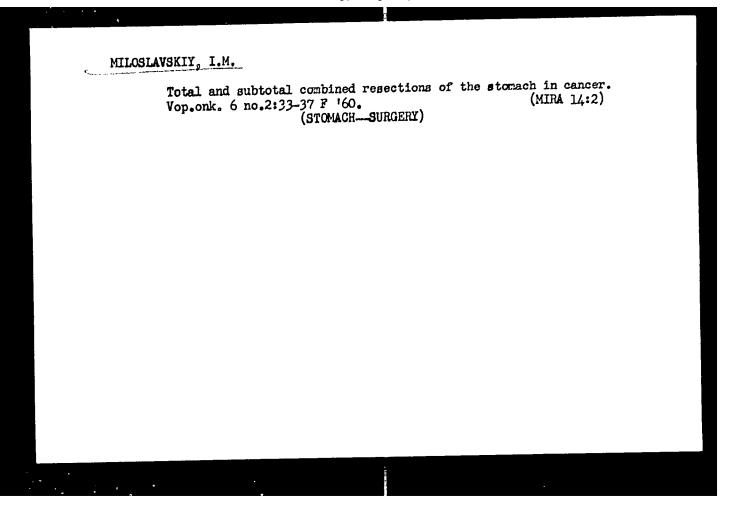
MILOSLAVSKIY, I.M., kand.med.nauk

Our experience with total gastrectomy in cancer of the cardia of the stomach. Nov. khir. arkh. no.3:80-84 My-Je '6D. (MIRA 15:2)

1. Khirurgicheskoye otdeleniye (zav. - L.M.Miloslavskiy) Khar'kovskogo oblastnogo onkodispansera. (STONACH\_CANCER)

Total removal of the colon and rectum in polyposis with malignization of polypi. Nov. khir. arkh. no.4:102-104 J1-Ag '60. (MIRA 15:2)

1. Khirurgicheskoye otdeleniye (zav. - I.M.Miloslavskiy) Khar'kovskogo oblastnogo onkologicheskogo dispansera.
(INTESTINES\_SURGERY) (INTESTINES\_CANCER)



# Surgical treatment of cancer of the rectum. Vop. onk. 6 no.4:90-94 Ap '60. (RECTUM—CANCER)

MILOSLAVSKIY, I.M., kand.med.nauk

Role of bronchography in the diagnosis of nonspecific pulmonary suppuration. Kaz.med. zhur. no.1:22-26 Ja-F'61 (MIRA 16:11)

1. Fakul'tetskaya khirurgicheskaya klinika (direktor-prof. A.Z. TSeytlin) Khar'kovskogo meditsinskogo instituta i Khar'kov-skogo oblastnogo onkologicheskogo dispansera (glavvrach-Stanislavskaya).

### MILOSLAVSKIY, I.M.

Combined surgery in gastric cancer. Kaz. med. zhur. no.2: 34-37 Mr-Ap '62. (MIRA 15:6)

1. Khirurgicheskoye otdeleniye (zav. - kand.med.nauk I.M. Miloslavskiy) Khar kovskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach - N.G. Stanislavskaya).

(STOMACH—CANCER) (STOMACH—SURGERY)

MILOSLAVSKIY, I.M., kand.med.nauk (Khar Lov, ul. Artema, d. 6 kv. 4);
KOSTYUKOVSKIY, I.M.

Morphological changes in the region of the esophago-intestinal anastomosis after gastrectomy. Klin.khir. no.8:18-22 Jl '62. (MIRA 15:11)

1. Khirurgicheskoye otdeleniye (zav. - kand.med.nauk I.M. Miloslavskiy) Khar'kovskogo oblastnogo onkologicheskogo dispansera. (STOMACH—SURGERY)

## MILOSLAVSKIY, I. M.

Comparative evaluation of some types of anesthesia in transperitoneal total gastrectomy. Vop. onk. 8 no.3:39-48 \*62. (MIRA 15:4)

1. Iz khirurgicheskogo otdeleniya (zav. - kand. med. nauk I. M. Miloslavskiy) Khar'kovskogo oblastnogo onkologicheskogo dispansera.

(STOMACH—SURGER) (ANESTHESIA) (STOMACH—CANCER)

## Late observations following mastreet my for cancer of the cardia. Sov.med. 28 nc.4:19-22 Ap 165. (MIRA 18:6) 1. Khirurgicheskoye otdeleniye (may. - doktor med.nauk 1.M. Miloslavskiy) Kharikovakogo oblastnogo omkologicheskogo dispansora (glavnyy vrach - zasluzhonnyy vrach UkrSSR N.T.Stanislavskaya).

```
Use of fluorescent lights for illumination in microscopic studies. Lab.delo 4 no.5:48-50 S-0 '58 (MIRA 11:11)

1. Iz ksfedry gistologii i embriologii (zav. - prof. N.D. Zaytsev) Stanislavskogo meditainskogo instituta. (MICROSCOPY.-TECHNICAUE)

(FLUOROSCHIT LIGHTING)
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MILOSIAVSKIY, K.V.; YEVHOKIMOV, V.P.

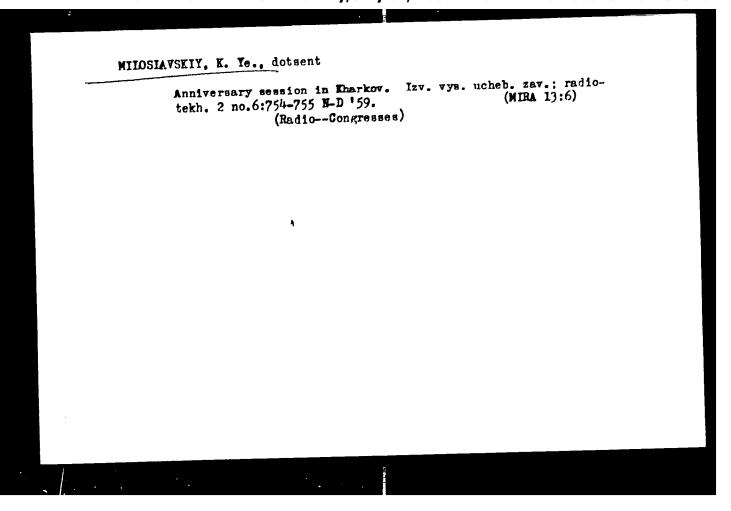
Support for spectrographs. Zav. lab. 31 no.1:131-132 '65.

(MIRA 18:3)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya
L'vovskogo soveta narodnogo khozyaystva.

MIKHEYEV, M. N., ZIMNEV, P. N., MILOSLAVSKIY, K. Ye.

Control with the Help of a Coercion Meter of the Case-hardening Depth and of the Quality of Heat-Treatment of Motor Parts. Vestnik Mashinostroyeniya No 6-7, 70, 1945.



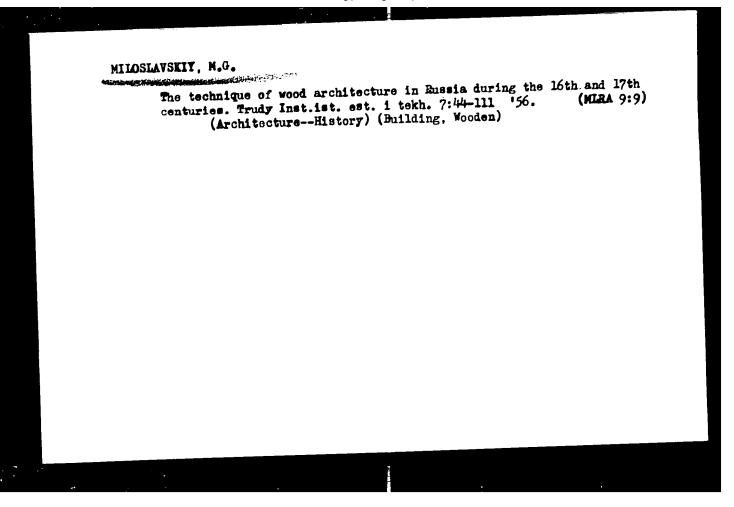
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MILOSLAVSKIY, L.P.

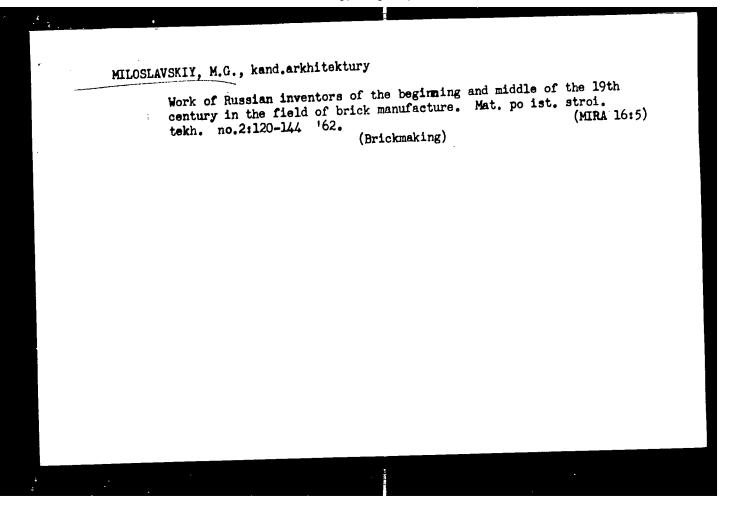
Electrolytic bath. Tekb. kino i telv. no. 8:60-61 Ag '58.

(MIRA 11:8)

1. Moskovskaya kinostudiya neuchno-populyarnykh fil'mov.

(Ginematography--Developing and developera)
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MILOSLAVSKIY, M.Ya., kand.med.nauk; GUSHCHINA, L.S.; MARIM'YAN, L.S.

Case of extremely premature puberty. Akush. i gin. 40 no.3:127-129 My-Je 164. (MIR4 18:6)

1. Ukrainskiy institut okhrany materinst a i detstva imeni Krupskoy (dir. - kand.med.nauk A.I.Kornilova), kafedra akusherstva i ginekologii pediatricheskogo fakul'teta (zav. - prof. V.F. Matveyeva) Khār'kōvskogo meditsinskogo instituta i Ukrainskiy institut eksperimental'noy endokrinologii (dir. - kand.med.nauk S.V.Maksomov).

MILOSLAVSKIY, N.Ya.; ZHUROVA, M.V.

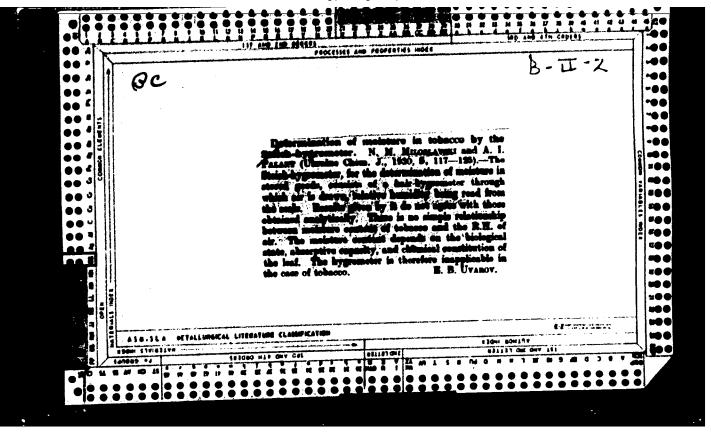
Detection and treatment of disorders of sexual development in girls. Trudy Ukr.nauch.-issl.inst.eksper.endok. 181323-327 161.

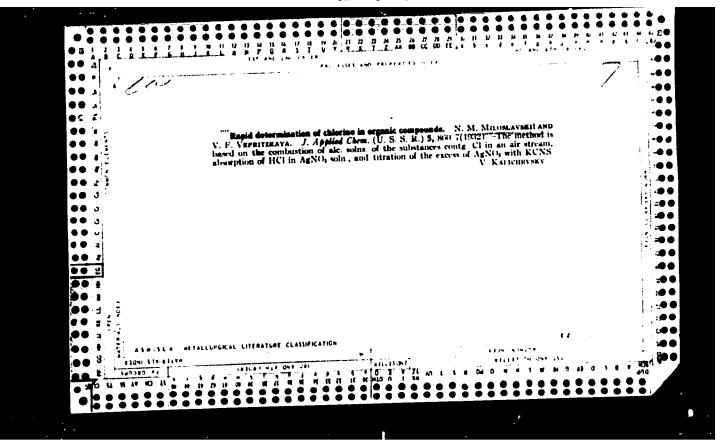
(GENERATIVE ORGANS, FEMALE...ABNORMITIES AND DEFORMITIES)

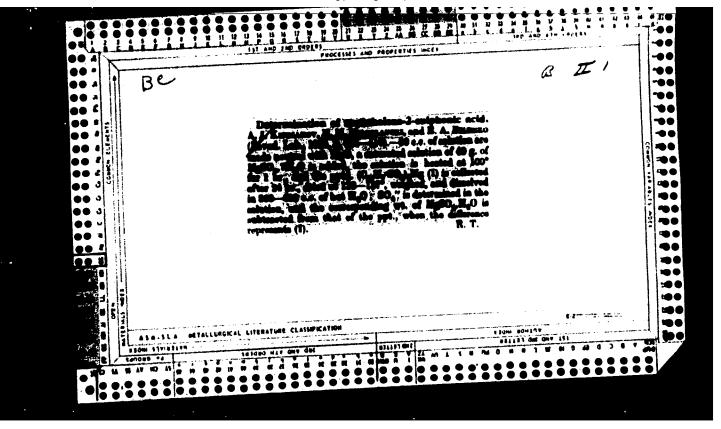
NEPOROZHNIY, P.S. (Moskva); BELYAKOV, A.A. (Moskva); RUSSO, G.A. (Moskva); BOROVOY, A.A. (Moskva); NEERASOV, A.M. (Moskva); MILOSLAVSKIY, M.A. (Moskva); ROKOTYAM, S.S. (Moskva); RAZGON, V.N., inzh.; TSVERAVA, G.K., inzh. (g.Boksitogorsk)

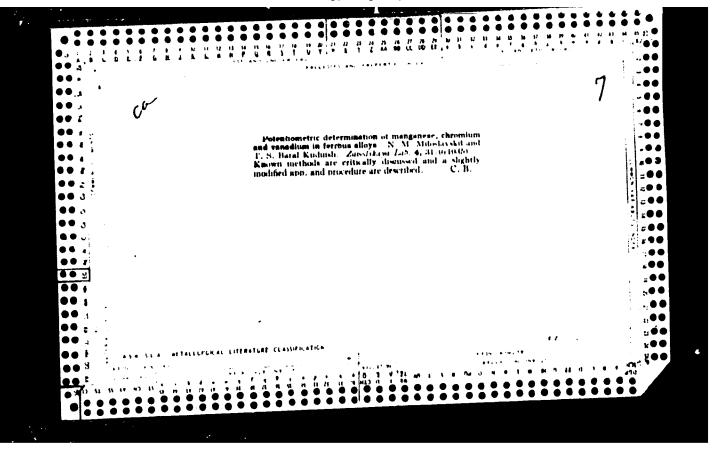
Principal trends in over-all electrification. Elektrichestvo no. 11:87-90 N '60. (MIRA 13:12)

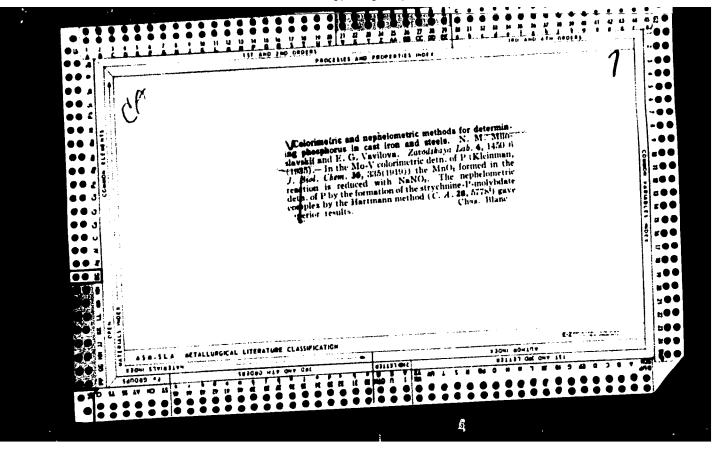
1. Mosenergo (for Razgon). (Blectrification)

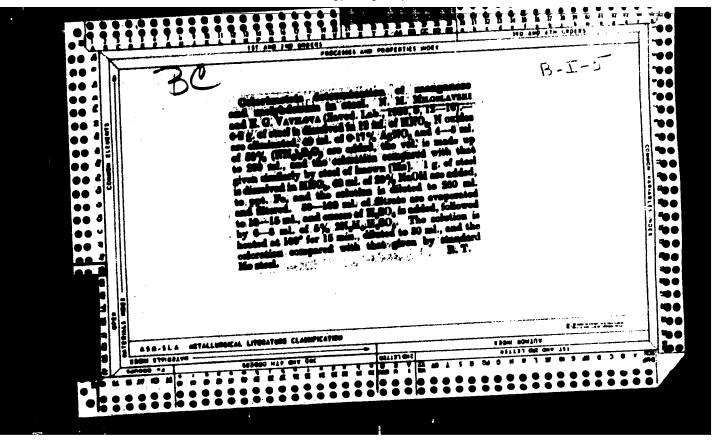


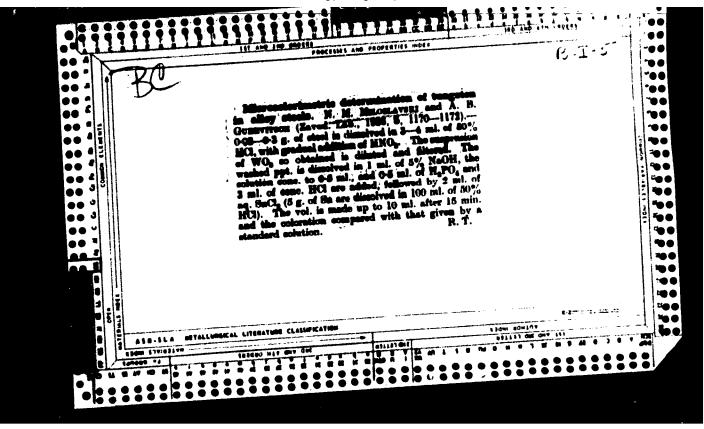


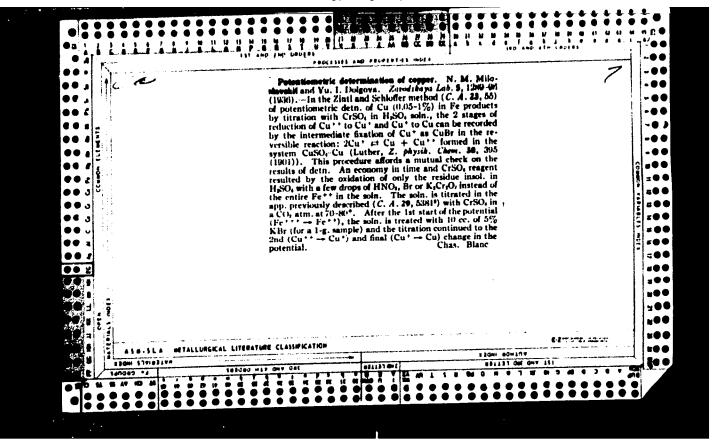


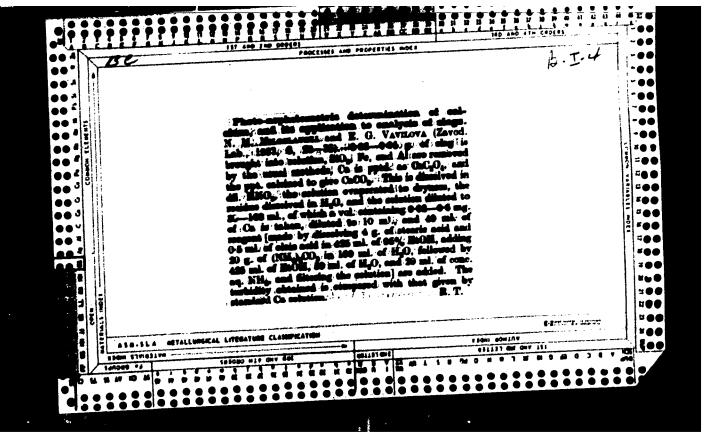


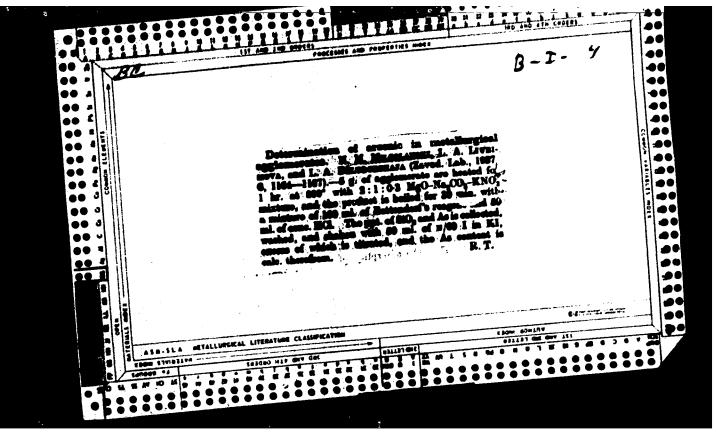


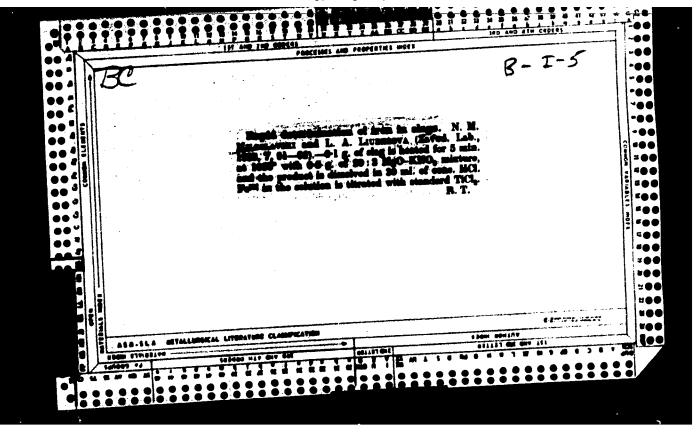


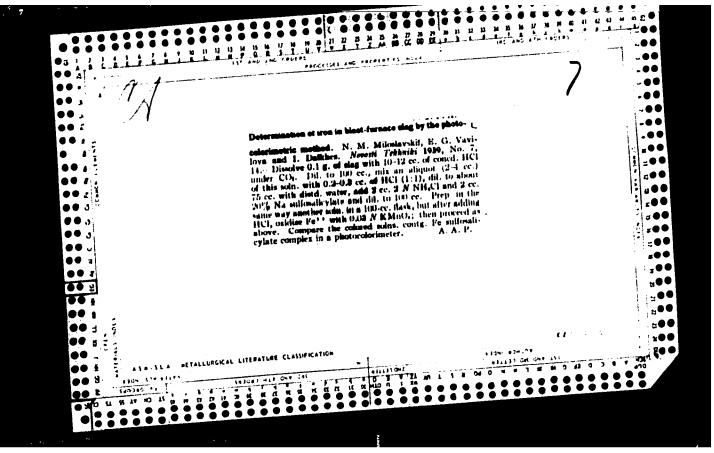












SOV/97-57-11-4/10

AUTHOR:

Miloslavskiy, N.M., Candidate of Technical Sciences

TITLE:

Concrete and Reinforced Concrete used for Constructions of Hydro-electric Power Stations (Beton i zhelezobeton v

gidroenergeticheskom stroitel'stve).

PERIODICAL:

Beton i Zhelezobeton, 1957, Nr 11, pp 437-447.

ABSTRACT:

This is an historical survey of various schemes of hydroelectric power stations built since the revolution. The total output of these stations reached 8.4 million kw during 1957, i.e. 20% of the total output of the country. During the 5th 5-year plan the following power stations

were constructed in: Wingechaur, Ust'-Kamenogorsk, Gor'kiy, Tsimlyansk, Gyumushskaya, Verkhne-Svirskaya, Kuybyshev and Kakhovka. According to the directives of the 20th Congress of the KPSS, the following power stations are planned or are under construction, for the years 1956-1960: Irkutsk, Novosibirsk, Votkinsk, Kremenchug, Stalingrad, Bratsk and Krasnoyarsk. During the 4th 5-year plan 2.7 million m<sup>3</sup> of concrete was used in connection with the construction of power stations and 16 million m<sup>3</sup> during the 5th 5-year plan. During the 6th 5-year plan 30 million m<sup>3</sup> of concrete and reinforced con-

Card 1/3

SOV/97-57-11-4/10
Concrete and Reinforced Concrete used for Constructions of Hydroelectric Power Stations.

crete will be used for the same purpose. Technical details are given of various early power stations, e.g. Volkhov, Dneprovskaya and Nizhne-Svirskaya. The application of reinforced concrete for hydro-electric power stations has considerably changed and advanced since 1940 (see details Figures 5A and B). New constructions and building material have been introduced, e.g. the cable crane in conjunction with the conveyer belt. Professor A.M. Senkov designed slabs from aerated concrete which could be used for small hydroelectric power stations. Professor S.G. Gutman is investigating stress conditions of these slabs using the method developed by Professor V.P. Skril'nikov and Academician B.G. Galerkin. The mechanization of concreting is rapidly increas. ing as shown hereunder: In 1955 during the construction of the Kuybyshev power station, 3,150,000m3 of concrete was laid. The largest amount of concrete laid per month was 389,000m<sup>3</sup> and per 24-hour shift 19,050m<sup>3</sup>. The concrete is unloaded from railway trucks by means of a pneumatic

Card 2/3

SOW/97-57-11-4/10
Concrete and Reinforced Concrete used for Constructions of Hydro-electric Power Stations.

installation S-362 or S-347. Their output is 20-30 and 30-50 tons per hour respectively. For the transportation of large volumes of concrete mix pneumatic installations S-296, S-252 and S-284, with outputs of 10, 20 and 40 tons per hour respectively, were used during the erection of the Narva, Kayrak-Kum and Kuybyshev: hydro-electric power stations. The prestressed concrete construction of Sluice design by Professor A.Z. Basevich was used in the Kachov, Novosibirsk and Stalingrad hydro-electric power stations, and is increasing in application. Winter concreting was used in the construction of the Kama power station with the "Thermos" and electric heating methods. There are 13 figures.

1. Power plants--Construction 2. Concrete--Applications 3. Reinforced concrete--Applications

Card 3/3

AVAILABLE:

BECHIN, Aleksey Petrovich, MILOSLAVSKIY, N.M., kand.tekhn.nauk, red.;
MORSKOY, K.L., red.izd-va.; MEL'NICHENKO, F.P., tekhn.red.

[Ways of shortening construction periods and lowering labor consumption in concrete work; from experience in the construction of sluices for the Upper Svir' and Kakhovka Hydroelectric Power Stations] Puti sokrashcheniia srokov stroitel'stva i snizheniia trudoemkosti betonnykh rabot; iz opyta stroitel'stva shluzov Verkhne-Svirskoi i Kakhovskoi GES. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam. 1958. 43 p. (MIRA 11:9)

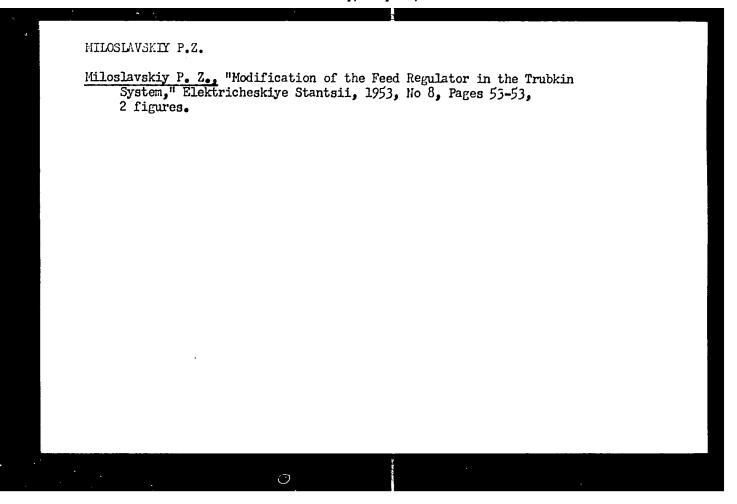
(Gonorete construction)
(Hydroelectric power stations)

NEPOROZHIIY, P.S. (Moskva); BELYAKOV, A.A. (Moskva); RUSSO, G.A. (Moskva); BUROVOY, A.A. (Moskva); NEKRASOV, A.M. (Moskva); ROKOTYAN, S.S. (Moskva); MILOSLAVSKIY, N.M. (Moskva); SYROMYATNIKOV, I.A., doktor tekhn. nauk, prof.

Principal trends in the realization of over-all electrification. Elektrichestvo no.8:77-82 Ag 163. (MIRA 16:10)

MILOSLAVSKIY, P.E., inzhener.

Reconstructing a Trubkin feed water regulator. Elek.sta. 24 no.8:53-54 Ag (MLRA 6:8) (Feed water)



AUTHOR:

Miloslavskiy, P. Z., Engineer

SOV/119-58-9-17 18

TITLE:

Percentual Barometric Vacuummeter (Protsentnyy barovakuummetr)

PERIODICAL:

Priborostroyeniye, 1958, Nr 9, pp. 31-32 (033R)

ARUTRACT:

h. I. Trzhakal, the Hend of the Department of Heat Control of the Laboratory of the Lenenergo, designed and built a device which graphically records the degree of vacuum in a direct manner. This device is produced from the marts of the normal mercury float differential manemeter DP-610. The dimensions of the "minus vessel" and the connection to the float chamber are illustrated in two figures. The float chamber of the differential manometer is by a tube connected with the condenser of the turbine. The "minus vessel" is closed on top, and it is completely evacuated above the mercury level. Hence the pressure is zero and the reading of the differential manometer is proportional to the absolute pressure in the condenser of the turbine. There are 3 figures.

Card 1/1

MILOSLAVSKIY, S.; FLEYER, A.; ANDRIYEVSKAYA, A.

Objectives of the seven-year plan are being fulfilled ahead of time. Stroitel' no.10:3-8 0 '60. (MIRA 13:9)

1. Glavnyy inshener upravleniya stroitel'stva Dnepropetrovskogo sovnarkhosa (for Miloslavskiy). 2. Glavnyy tekhnolog upravleniya Dnepropetrovskogo sovnarkhosa (for Fleyer). 3. Spetsial'nyy korrespondent shurnala "Stroitel'" (for Andriyevskaya).

Onepropetrovsk Province--Metallurgical furnaces)

MILOSLAVSKIY, S.L.: KHOKHOLEV, K.I.: DUDNIK, P.S.

. ...

Use of large-size reinforced concrete slabs for walls of industrial buildings. Stroi.prom. 33 no.3:10-12 Mr 155. (MIRA 8:5)

- Dneprovskpromstroy (for Miloslavskiy).
   Dnepropetrovskiy filial YuZhNII (for Khokholev and Dudnik). (Walls) (Reinforced concrete construction)

HOKHOLEV, K.I., inshener; MILOSIAVSKIY, S.L., inshener; LAPSHIN, M.G., inshener.

Experience with making and erecting precast reinforced concrete elements for oxygen plants. Bet.i shel.-bet. no.6:202-205 Je '56. (MLRA 9:8)

(Precast concrete construction)

no.4:4-11 '65.

MILOSLAVSKIY, S.L.; SHMAKOV, V.P. Rapid method of reconstructing blast furnaces. Prom. stroi. 42 (MIRA 18:4)

- 1. Zamestitel' nachal'nika Glavpridneprovstroya (for Miloslavskiy).
- 2. Glavnyy inzh. tresta "Dzerzhinskstroy" (for Shmakov).

## "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001134320

FD-1034

Card 1/1

Pub. 153 - 5/23

Authors

Shklyarevskiy, I. N., and Miloslavskiy, V. K.

Title

Interferometric method for determining the dispersion of liquids

and solids

Periodical:

Zhur. tekh. fiz., 24, 1387-1391, Aug 1954

Abstract.

Describe newly developed interferometric method of measuring dispersion of liquids and solids which is freed of the deficiencies of the OBREIMOV method. Give results of measurements by new method. State that attempts are being made to extend the interferometric method to the ultraviolent region of the spectrum. Thank Prof. K. D. Sinel'nikov, Active Member of Academy of Sciences of Ukrainian SSR. Seven references 5 USSR (e.g. N. V. Rapp and I. N. Shklyarevskiy,

Kharkov State University, 1950-1953.

Institution:

- -

Submitted

28 December 1953

MILOSLAUSKIY V.K.

Category : USSR/Optics - Physical Optics

K-5

Abs Jour: Ref Zhur - Fizika, No 2, 1957, No 4938

Author: Shklyarevskiy, I.N., Miloslavskiy, V.K., Pakhomova, O.S., Ryazanov, A.N.

Title : Interferometric Method for Determining the Dispersion of Liquids in the

Ultraviolet Region

Orig Pub: Uch. zap. Khar'kovsk. un-ta, 1955, 6, 147-150

Abstract: The previously described (Referat Zh. Fizika, 1955, 23123) interfero-

metric method for determining the dispersion of liquids and solids, based

on the application of the lines of equal chromatic order, has been

expanded to determine the dispersion of liquids in the ultraviolet region. The investigated liquid is introduced into a gap between aluminized quartz plates, which are attached to the slit of an ISP-22 quartz spectrograph. The thickness of the gap is regulated by means of screws. The resultant spectrogram is used to determine the wavelengths of many interference lines, to determine their interference order, and knowing the thickness of the gap, to calculate the index of refraction for many wavelengths. The order of the interference is determined by filling the gap half with

Card : 1/2

Category : USSR/Optics - Physical Optics

K-5

Abs Jour: Ref Zhur - Fizika, No 2, 1957, No 4938

liquid and half with air and obtaining on the spectrogram two systems of lines. The accuracy of the measurement is  $5 \times 10^{-4}$ . The above method requires small amounts of substance and is applicable to absorbing liquids.

Card : 2/2

Los/Ausking, V. K.

51-3-8/14

AUTHOR:

Miloslavskiy, V. K.

TITLE:

Optical Properties of Thin Layers of Cadmium Oxide in the Infrared Spectral Region. (Opticheskiye svoystva tonkikh sloyev okisi kadmiya v infrakrasnoy oblasti

spektra.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.3, pp.251-257.

(USSR)

ABSTRACT:

This paper reports results of studies of absorption by cadmium oxide (CdO) in the infrared spectral region from 1 to 16 \(\mu\) using samples of different electrical conductivities. Thin layers of cadmium oxide were prepared by sputtering. A disc of metallic cadmium served as a cathode. Sputtering was carried out in It was found that electrical air and oxygen. conductivity and colour of the films obtained depended strongly on the conditions under which they were prepared. Conductivities in the range from 0.01-103 ohm cm were With increase of the sputtering rate and

Card 1/5

obtained. improvement of vacuum the probability of oxidation of

Optical Properties of Thin Layers of Cadmium Oxide in the Infrared Spectral Region.

cadmium atoms on their way from the cathode to the deposition base decreases, i.e., the excess of metal in semi-conducting CdO increases. This is accompanied by a rise in electrical conductivity and a change of optical properties. The absorption coefficient was measured on layers with low conductivity (1.2 ohm-1cm-1) and of grey colour. The results are given in Fig.1. From the absorption maxima shown there it is concluded that these maxima correspond to excess of cadmium in the crystal lattice of CdO. The excess of cadmium is in Its energy spectrum consists of a the atomic state. series of levels which approach the conduction band of the semi-conductor (Fig. 2). The most intense absorption band corresponds to the transition from the 5s groundstate level to the lower edge of the conduction band. This transition bridges a 0.410 eV energy gap. At temperatures above 200°C the CdO layers are gradually decomposed, in a gaseous medium or in a vacuum, producing excess cadmium. On decomposition the electrical and optical properties are altered. Electrical conductivity

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Optical Properties of Thin Layers of Cadmium Oxide in the Infrared Spectral Region.

increases with increase of temperature. Concentration of conduction electrons increases also and the colour of the layers changes from grey to yellow. Absorption of samples with low initial electrical conductivity, subsequently heated to 250-400°C in air was measured. Electrical conductivity was measured also. The results Curve 1 represents an untreated are shown in Fig. 3. sample with low electrical conductivity (0.8 ohm-1cm-1). Curves 2-5 give absorption of the same sample after treatment at 2500C (curve 2), 3000C (curve 3), (curve 4) and 400°C (curve 5). The initial sa The initial sample had absorption due to electron transitions from the ground-state level to higher levels and to the conduction With increase of the amount of excess cadmium and electrical conductivity, absorption increases in practically the whole spectral region studied (curve 2). Absorption due to the impurity atoms of cadmium increases particularly strongly. Concentration of conduction

Card 3/5

Optical Properties of Thin Layers of Cadmium Oxide in the Infrared Spectral Region.

electrons also increases from  $10^{20}$  to  $6 \times 10^{20}$ . further increase of temperature (above 250°C) increase of electrical conductivity is accompanied by increase of absorption in the long-wavelength part of the spectrum (curves 3, 4, 5). A decrease of absorption in the impurity band region now occurs. At these very high concentrations of impurity atoms (more than 1021 cm-3) almost complete The semi-conductor acquires metallic ionization occurs. properties and absorption by conduction electrons is the 3-electron theory calculations predominant feature. This agrees well yield the curve shown dotted in Fig. 3. with the curve 5 for wavelengths greater than 12,... Disagreement between the theoretical curve and curve 5 below 12 4 is due to cadmium-impurity electron transitions. It was found that absorption at 15 m in various samples of Fig. 3 rises monotonically and almost linearly with This is shown by increase of electrical conductivity. the continuous line in Fig.4; the dotted line is a The author thanks Academician of the theoretical curve.

Card 4/5

Optical Properties of Thin Layers of Cadmium Oxide in the Infrared Spectral Region.

Ukrainian SSR K.D. Sinel'nikov for direction of this work. There are 4 figures and 9 references, 1 of which is Slavic.

ASSOCIATION: Kharkov State University imeni A. M. Gor'kiy.

(Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.)

SUBMITTED: January 4, 1957.

AVAILABLE: Library of Congress

Card 5/5

MILOS LAUS RIX

51-4-11/26

AUTHORS:

Shklyarevskiy, I. N. and Miloslavskiy, v. K.

TITLE:

A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals. (Novaya modifikatsiya polyarizatsionnogo metoda izmereniya opticheskikh postoyannykh metallov.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol. III, Nr.4,

pp.361-367. (USSK)

ABSTRACT:

The present authors review briefly the variants of the classical Drude's method of measurement of the optical constants of metals (Refs.1-7). The method described here is based on multiple reflection of light incident on identical parallel samples (Refs.6, 7). It can be used both in the visible and infrared regions. angle of incidence which makes the phase difference between the p and s components (polarized in the plane of incidence and at right-angles to the plane of incidence respectively) equal to - 1800 is used. Elliptically polarized light becomes then linearly

Card 1/7

The authors derive Eqs. 6 and 7 (p.362) polarized.

1000

A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals.

for the refractive index  $\mu$  and the absorption coefficient MY in terms of measurable quantities: angle of incidence  $\phi$  , azimuth of reduced (relative) polarization  $\psi$  , and phase difference between the p and s components after one reflection  $\Delta$ apparatus used is shown in Fig.1. A monochromatic, parallel, linearly polarized (by polarizer P, at an angle of 450 to the plane of incidence) beam falls on plates (1) and (2) with mirrors of the studied metal deposited on them. The two plates are attached to a goniometer table; one of them is fixed and the other can be moved parallel to it. The light, reflected three times by the metallic surfaces, falls on an analyser, A, whose angle of rotation can be read down to 2 minutes of arc. ? is a receiver of radiation. First the second plate is in the position 21. displacement to position 2 makes it possible to obtain quintuplet reflection #2 necessary. In the visible region the source of light is the exit slit (5) of a monochromator YM-2. lilan prisms serve as the

Card 2/7

A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals.

in visual observations an polarizer and the analyser. eyepiece focussed at infinity is used instead of the In the infrared region the source of light receiver, T. is the slit of a monochromater 3MP-2. Glan prisms are replaced by selenium piles consisting of 6 plates placed at an angle of 68° to the incident beam. emerging from glass were constants of metals for light measured using the apparatus shown in Fig. 2. This is a prism-like piece of glass in which triple reflection of light at the boundary glass-metal occurs (surfaces AA' and CC' have metal layers deposited on them). Angles A'AB and AA'B' are both 45°. This arrangement is used for the study of metals which, on vacuum deposition, do not the study of metals which the study of metals on which the study of metals of the study of metals of the study of metals which the study of metals produce specular surfaces; or for metals on which thin Measurements were made by oxide layers are present. rotation of the goniometer table until an angle of incidence was found at which by rotation of the analyser it was possible to extinguish completely the beam reaching

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A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals.

This angle of incidence was measured the receiver. several times, and a mean value was taken. Mean values of  $\psi$  were also obtained. Knowing  $\phi$  ,  $\psi$  and  $\Delta$ = - 600, the optical constants of the metal could be Measurements of the optical calculated from Eqs. 6 and 7. constants of metals for light falling from the glass side (Fig. 2) did not differ in principle from measurements using light falling from the air side. The authors applied the method to measurement of the optical constants of aluminium in the visible region. These constants were measured earlier by ) Bryan (Ref.1), in vacuo because a layer of oxide is always present on aluminium in air. To exclude the effect of oxide the present Aluminium layers authors used the apparatus of Fig. 2. were deposited on the surface: AA' and CC' at 5 x 10-5 To avoid any contamination, for the first few moments aluminium was evaporated on a special screen and only then on the surface of the prism of Fig. 2. gives the results of measurem nts thus obtained (triple = -60°).\ This table gives (in  $\tilde{r}$ eflection with  $\Delta$ 

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A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals.

addition to  $\phi$  ,  $\psi$  ,  $\mu$  and  $\mu\chi$  )  $\mu_0$  which is the refractive index of glass used for construction of the prism of Fig.2. Identical results were obtained on measurement of the optical constants after one month. One of the present authors (Ref.8) described earlier an interferometric method of measurement of phase-shift dispersion at the boundary ZnS-Al. Fig. 3 shows the results of Ref.8 by a continuous curve with open circles. In the same figure the dashed curve represents O'Bryan's results, while crosses represent values obtained by the methods described in the present paper. Table 2 gives the results of measurements of the optical constants of aluminium from the air side. The values in Columns marked 1 refer to samples 6 hours after deposition of the mirror and the removal from the vacuum! chamber. Columns 2 give the same quantities measured on the same samples after 50 days in a desiccator. Optical constants of Table 2 differ considerably from those given in Table 1.

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those calculated by Hass (ref.10). This is because Hass did not take into account the oxide layer formed in vacuo. The authors thank Professor K.D. Sinel'nikov for valuable discussions and his interest. There are 2 figures.

discussions and his interest. There are 2 figures CeAPPROVED FOR RELEASER Monday, Julys 314 2000, hic CIAR DP86 100513R0011343

A New Modification of the Polarization Method of Measurement of the Optical Constants of Metals.

ASSOCIATION: Kharkov State University. (Khar'kovskiy gosudarst-vennyy universitet).

SUBMITTED: February 5, 1957.

AVAILABLE: Library of Congress.

Card 7/7

SOV/51-5-5-18/23

Mileslavskiy, V.K. and Kovalenko, N.A. iu Thors :

Absorption by Zinc Oxide in the Infrared Spectral Region (Pogloshcheniye TITLE: okisi tsinka v infrakrasnoy oblasti spektra)

PERICDICAL: Optiks i Spektroskopiya, 1958, Vol 5, Nr 5, pp 614-617 (USSR)

ZnO layers were produced by sputtering in an atmosphere containing ABS TRACT: oxygon. These layors exhibit high electrical conductivity and are transparent in the visible region. Their high conductivity is due to excess of Zn. Conductivities of the layers depend strongly on the rate of sputtering. At high sputtering rates (10-4 cm/hour) the layers possess resistances of 100-500 ohm/cm2. Layers produced at lower sputtering rates have higher resistance: 105 to 106 ohn/cm2. The higher conductivity is exhibited by layers produced by sputtering in nitrogen, argen or in mercury vapours. Lower conductivities are obtained on sputtering in atmospheric air. The initial resistance of the layer may be altered by subsequent treatment, e.g. by exposure to This change of resistance, which occurs at room temperature, is due to adsorption of exygen and other electro-negative molecules on

the surface of 2no. These layers absorb fairly strongly in the infrared. Card 1/4

SOV/51-5-5-13/23

Absorption by Zine Oxide in the Infrared Spectral Region

Layers of high resistance (greater than 1000hm) are transperent in the region from I to 16 . Layers with lower resistances exhibit continuous absorption from 3 to 16 \mu with a sharp fall of absorption at the shortwavelength end. There is no simple relationship between the coefficient of abscrption and resistivity of layers prepared under different conditions. On the other hand, if the sample resistence is altered by some treatment, then the absorption of this sample changes monotonically with the change in the resistance. Measurements of absorption were carried out using an infraced spectromater IKS-2 working in the region from 1 to 16 p. The layers were deposited on rock-salt plates. The absorption coefficient K (Fig 1, continuous curve) rises rapidly between 1 and 4  $\mu$ , then passes through a maximum at 5.5  $\mu$  ( $K_{max} = 2 \times 10^4 \text{cm}^{-1}$ ) Calculations of and finally slowly falls with increase of wavelength. the absorption coefficient using the classical Drude theory gave values which are shown by the dashed curve in Fig 1. The calculated curve departs strongly from experiment in the 1-10 p region. of the optical absorption by ZnO as a function of adsorption showed that on adsorption of oxygen and other molecules on thin layers the optical absorption and electrical conductivity decrease monotonically with time. Irraliation with ultraviolet light increases both electrical

Card 2/4

SOV/51-5-5-18/23

Absorption by Zinc Oxide in the Infrared Spectral Region

conductivity and optical absorption. Fig 2 gives a series of optical density curves (-log T) as functions of wavelength, which were obvained during adsorption. The curves were recorded after equal intervals of time. Simultaneously with recording of these curves resistance of the sample was also measured. When curve I was recorded the resistance rose to 30000 chms; when curve IX was recorded the resistance rose to 30000 chms. All these measurements were made within 1.5 hours. By constructing the dependence of (-log T) on (1/R), where R is the electrical resistance, we can find the change in the conduction electron density N (taken to be proportional to 1/R) as a function of changes in optical absorption. This is shown in Fig 3 where the lines 1, 2, 3 and 4 were obtained at 5.4, 7.3, 11.2 and 15 \tmu wavelengths respectively. The proportionality between absorption and conductivity shown by Fig 3, indicates that absorption in the infrared region is due mainly to

Card 3/4

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SOV/51-5-5-18/23

Absorption by Zinc Oxide in the Infrared Spectral Region

conduction electrons. The authors thank K.D. Sinel'nikov for his advice and I.N. Shklyarevskiy for discussions of this subject. There are 3 figures and 6 references, 4 of which are Soviet, 1 German and 1 American.

SUBMITTED: March 26, 1958

1. Zinc oxide films--Spectra 2. Zinc oxide films--Electrical properties

Card 4/4 3. Infrared spectroscopy

MILOSLAVSKIY, V. K., Candidate Phys-Math Sci (diss) -- "The optical and electrical properties of semiconductor layers of Cdo, Zno, and Sno2". Khar'kov, 1959.

15 pp. (Min Higher Educ Ukr SSR, Khar'kov Order of Labor Red Banner State U im A. M. Gor'kiy), 120 copies (KL, No 24, 1959, 126)

SOV/51-7-2-16/34

AUTHOR:

Hiloslavskiy, V.K.

TITLE:

Infrared Absorption by Thin Layers of Tin Dioxide (Infrakrasnoye pogloshcheniye tonkikh sloyev dvuokisi olova)

PERIODICAL:Optika i spektroskopiya, 1959, Vol 7, Nr 2, pp 244-248 (USSR)

ABSTRACT: Thin layers of SnO2 were obtained by pyrolytic decomposition of SnCl2 and SnCl4 vapours which occurred at the surface of a glass plate heated to 500-600°C. The tin chlorides were prepared in the form of solutions in various media; the solvent used affected the conductivity of the Thickness of the SnO2 layers was controlled by final layer of SnO2. The refractive index of the means of their interference colours. layers was found interferometrically; it was  $n = 1.98 \pm 0.02$  at 5900 Å. Absorption spectra were determined for layers deposited on thin rocksalt plates, using a spectrophotometer IKS-2 in the wavelength region 1-18  $\mu$ . In all layers two absorption bands (Fig 1) were observed: a narrow band at 16.4  $\mu$  and a wide band with a maximum at 8.5-9  $\mu$ . Samples of SnO2 prepared by oxidation of thin vacuum-deposited layers of tin were found to have a much lower conductivity (ad ohm-1cm-1) than the layers prepared in the way described above; SnO2 layers prepared by exidation

Card 1/3

SOV/51-7-2-16/34

Infrared Absorption by Thin Layers of Tin Dioxide

differed also in their optical properties: they were transparent in the whole range of wavelengths studied here. Appearance of absorption bands in SnO2 produced by pyrolytic decomposition of chlorides is probably due to a large number of impurity atoms introduced during the preparation stage. These impurities affect also the electrical properties of SnO2. To find out more about the nature of the impurity bands shown in Fig 1 the author studied the temperature dependence of absorption in the infrared region and of the electrical conductivity (samples used in the conductivity studies were deposited on glass plates). It was found that with decrease of temperature (from +220 to -140°C) the absorption coefficient of both bands rose considerably (the long-wavelength band intensity rose more rapidly than that of the short-wavelength band, Fig 2). Both bands are ascribed to electron transitions from the ground level of the impurity centre into higher energy states: the long-wavelength band corresponds to a transition of an impurity atom to an excited state and the shortwavelength band indicates a transition to the conduction band. The temperature dependence of the electrical conductivity was determined between -150 and +300°C: above +350°C the resistance of the layers was found to increase irreversibly. Below +150°C the resistance of the layers was practically constant in a wide range of temperatures but

Card 2/3